

MODARCH Presentation

to the MODIS Science Team

September 30, 1993

- **Archive research project—objectives & findings**
- **Features of the system**
- **Benefits of using MODARCH**
- **MODARCH Pilot System**
- **Demonstration of the system**
- **Document submission protocols**
- **Short- & long-term goals**

By David Herring & Michael Heney

Science Systems & Applications, Inc.

Research Project Objectives

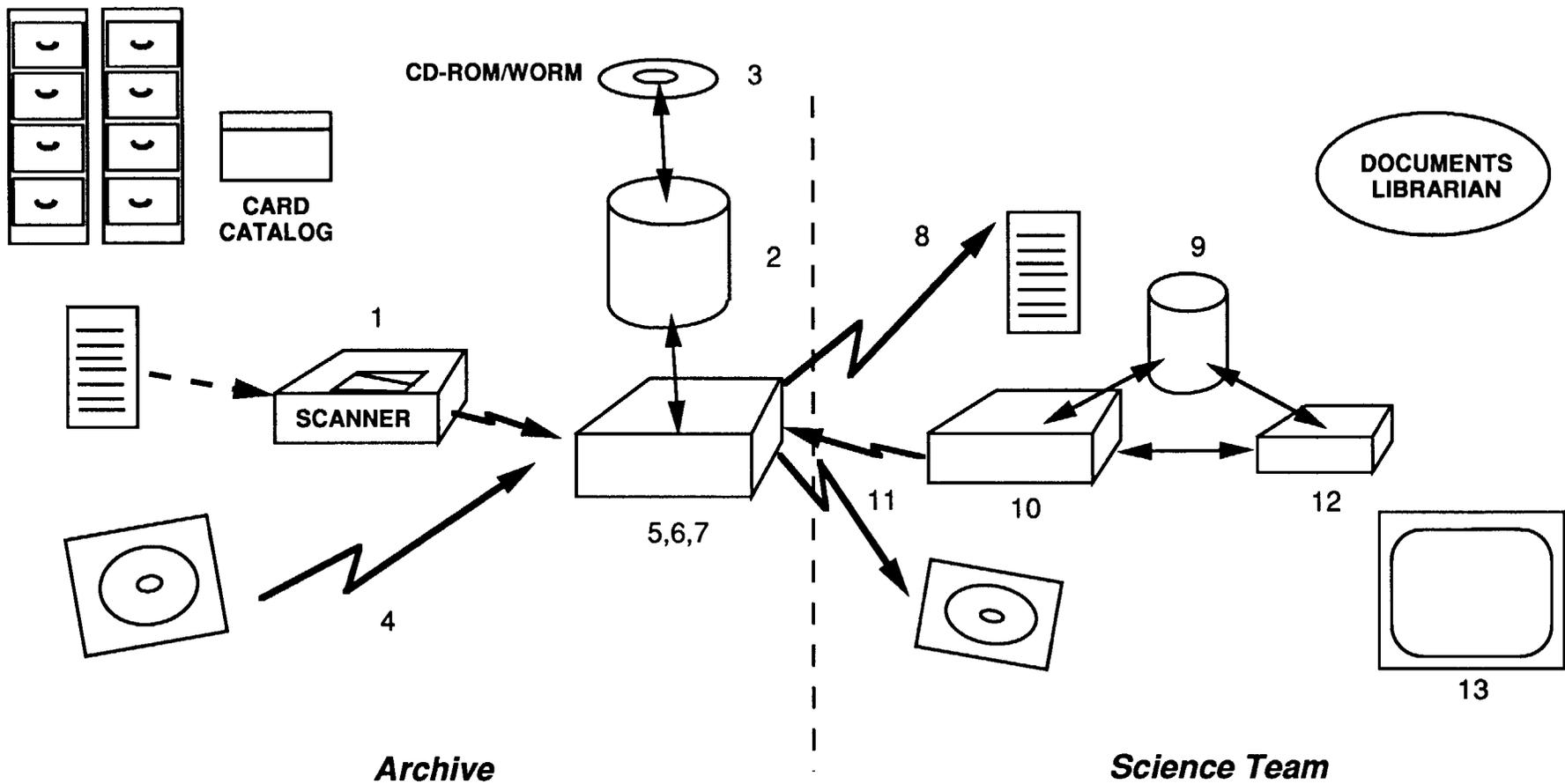
- **Define the MODIS Team requirements for an archive**
- **Evaluate pros & cons of current system**
- **Determine Team members' preferences**
- **Evaluate other similar archives**
- **Investigate new archiving technologies**
- **Recommend system to best meet the Team's needs**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Archive Research Project

- **Space problem — current system will consume 85 filing cabinets in 10 years**
- **Current system distributed over at least 4 locations**
- **Retrieval time & effort progressively worsening**
- **Hardcopy submission won't go away**
- **Electronic system must compensate for OCR (Optical Character Recognition) errors**
- **Electronic system must fit within Team's existing hardware & network configurations**
- **An electronic system must be fast, easy to use, and retrieve relevant information approaching 100% of the time**
- **An electronic system must be flexible and expandable**

By David Herring & Michael Heney
Science Systems & Applications, Inc.



- 1. Documents scanner
- 2. Mass storage access
- 3. Storage media
- 4. Electronic submission
- 5. Indexing software
- 6. OCR software
- 7. Image compression

- 8. Print capability
- 9. Bibliographic database
- 10. Reference tools
- 11. Electronic access/delivery
- 12. Expert system
- 13. Interface to system

MODIS Document Archive System

Features of MODARCH

- **Selected Excalibur Technologies' EFS (Electronic Filing System) software:**
 - **Compatible with Macintosh, PC, and UNIX computers**
 - **Has scan & OCR capability for ingesting hardcopy**
 - **May view ascii text or linked bit-mapped image of documents**
 - **Allows multiple search and retrieval strategies, including "fuzzy" searches**
 - **Allows very fast searches, from your desktop, and consumes very little space**
 - **Supports local printing, as well as copy & paste functions**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

MODARCH System Status

Moving from pilot to production

- **MODARCH Pilot**
 - **designed archive structure**
 - **initial document loading**
 - **system performance evaluation**
 - **defined operational procedures**
 - **user testing and feedback**
- **Production operations**
 - **establishing document flow**
 - **processing document backlog**
 - **bringing system users on-line**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Benefits of Using MODARCH

- **Easy to submit documents**
- **One common, central location from which to obtain MODIS documents on-line**
- **System is intuitive and easy to learn**
- **Allows for multiple search strategies**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

MODARCH Support

- **Michael Heney - MODARCH System Administrator**
 - email: mheney@ltpsun.gsfc.nasa.gov
 - phone: (301) 286-4044

- **David Herring - MAST Technical Manager**
 - email: herring@ltpsun.gsfc.nasa.gov
 - phone: (301) 286-9515

- **MODARCH System**
 - email: modarch@modarch.gsfc.nasa.gov

By David Herring & Michael Heney
Science Systems & Applications, Inc.

MODARCH Server

- **Sun SparcStation IPX**
 - **Internet Address: modarch.gsfc.nasa.gov (128.183.26.44)**
- **Fujitsu 3096-E Scanner**
 - **300 dpi resolution**
- **Calera TruScan OCR (Optical Character Recognition) system**
- **Hewlett-Packard LaserJet III Printer**
 - **300 dpi Resolution**
- **Maximum Concurrent Users: 5**
- **Availability: 24 hours/day 7 days/week**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

MODARCH Client Systems

- **Apple Macintosh**
 - **System 7.0**
 - **MacTCP**
- **IBM-PC**
 - **DOS 5.0**
 - **Windows 3.1**
 - **WinSock 1.0 compatible TCP/IP software**
- **UNIX Systems**
 - **X Windows server**
 - **rlogin capability**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

System Status

- **Completing Pilot Phase**
 - **System performance evaluation**
 - **Set up Operational Procedures**
 - **User testing**
- **Beginning Production Operations**
 - **Establishing Document Flow**
 - **Processing Document Backlog**
 - **Bringing system users on-line**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Documents Available

- **MODIS Specifications**
- **MODIS CDRL List**
- **Science Team Meeting Minutes 1991-1993**
- **Technical Team Minutes 1991 - 1993**
- **ATBDs**
- **Science Team Member Reports (as available)**
 - **Monthly**
 - **Quarterly**
 - **Semi-Annual**
- **MODIS Data Products Correspondence**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Documents Forthcoming

- **SDST Meeting Minutes**
- **SDST Presentations**
- **SBRC Weekly Deliverables (Last in, First Out)**
- **Science Team Member Publications**
- **And much, much more!**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Document Submission

- **Hard Copy**
 - **Submit to MODIS Archive via Code 920**
 - **Attach MODARCH Document Submission Form**
- **Electronic Documents**
 - **submit via Diskette, ftp, or e-mail**
 - **require same information requested for hard copy**

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Future Enhancements

- **Document Distribution through MODARCH**
 - e-mail notification of document availability
- **On-Line Conferencing system**
 - document review
 - troubleshooting and problem resolution
- **Interface/Front End for EOSDIS**
 - hard-copy management
 - electronic document format compatibility

By David Herring & Michael Heney
Science Systems & Applications, Inc.

Visit Our Demo Booth!

- **Work Hands-on with MODARCH**
- **Pick up System Tech Notes**
- **Arrange to get client software**
 - ftp instructions
 - diskette

By David Herring & Michael Heney
Science Systems & Applications, Inc.